

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 ; Search time 139 Seconds
(without alignments)
69.576 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68
Sequence: 1 KKAANVLLPVLLAAP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA_Main:*

1: /cgn2_6/ptodata/1/paa/PTUS_COMB.pep.*
2: /cgn2_6/ptodata/1/paa/US06_COMB.pep.*
3: /cgn2_6/ptodata/1/paa/US07_COMB.pep.*
4: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
5: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
6: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
7: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
8: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
9: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
10: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
11: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
12: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
13: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
14: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
15: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
16: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
17: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
18: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
19: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
20: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
21: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
22: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
23: /cgn2_6/ptodata/1/paa/US09_COMB.pep.*
24: /cgn2_6/ptodata/1/paa/US10_COMB.pep.*
25: /cgn2_6/ptodata/1/paa/US10_COMB.pep.*
26: /cgn2_6/ptodata/1/paa/US10_COMB.pep.*
27: /cgn2_6/ptodata/1/paa/US10_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	68	100.0	15	20	US-09-671-089-2
2	68	100.0	15	25	US-10-136-187-2
3	68	100.0	15	25	US-10-136-187-6
4	68	100.0	15	25	US-10-136-187-12
5	68	100.0	15	25	US-10-136-187-13
6	68	100.0	15	25	US-10-136-187-33

7	68	100.0	15	25	US-10-136-187-34	Sequence 34, Appl
8	68	100.0	15	25	US-10-136-187-35	Sequence 35, Appl
9	68	100.0	15	25	US-10-136-187-36	Sequence 36, Appl
10	68	100.0	15	25	US-10-136-187-37	Sequence 37, Appl
11	68	100.0	15	25	US-10-136-187-38	Sequence 38, Appl
12	68	100.0	15	25	US-10-136-187-39	Sequence 39, Appl
13	68	100.0	16	20	US-09-671-089-3	Sequence 3, Appl
14	68	100.0	16	20	US-09-671-089-4	Sequence 4, Appl
15	68	100.0	16	25	US-10-116-275-91	Sequence 48, Appl
16	68	100.0	16	25	US-10-136-187-3	Sequence 91, Appl
17	68	100.0	16	25	US-10-136-187-7	Sequence 7, Appl
18	68	100.0	16	25	US-10-136-187-28	Sequence 28, Appl
19	68	100.0	17	25	US-10-136-187-32	Sequence 32, Appl
20	68	100.0	17	25	US-10-136-187-30	Sequence 30, Appl
21	68	100.0	19	20	US-09-671-089-4	Sequence 4, Appl
22	68	100.0	19	25	US-10-116-275-92	Sequence 92, Appl
23	68	100.0	20	25	US-10-136-187-5	Sequence 5, Appl
24	68	100.0	20	25	US-10-136-187-9	Sequence 9, Appl
25	68	100.0	21	25	US-09-671-089-5	Sequence 5, Appl
26	64	94.1	16	20	US-10-116-275-93	Sequence 93, Appl
27	64	94.1	16	25	US-10-136-187-4	Sequence 4, Appl
28	63	92.6	15	25	US-10-136-187-8	Sequence 8, Appl
29	63	92.6	15	25	US-10-136-187-29	Sequence 29, Appl
30	63	92.6	15	25	US-10-136-187-31	Sequence 31, Appl
31	61	89.7	15	25	US-10-136-187-40	Sequence 40, Appl
32	61	89.7	15	25	US-10-136-187-12	Sequence 12, Appl
33	54	79.4	12	1	PCT-US01-05578-1	Sequence 1, Appl
34	54	79.4	12	1	PCT-US99-07189-1	Sequence 1, Appl
35	54	79.4	12	20	US-09-671-089-1	Sequence 1, Appl
36	54	79.4	12	20	US-09-671-089-14	Sequence 14, Appl
37	54	79.4	12	21	US-09-785-802A-10	Sequence 10, Appl
38	54	79.4	12	21	US-09-785-836-12	Sequence 12, Appl
39	54	79.4	12	21	US-09-792-397-5	Sequence 5, Appl
40	54	79.4	12	23	US-09-997-465B-4	Sequence 4, Appl
41	54	79.4	12	24	US-10-077-555-1	Sequence 1, Appl
42	54	79.4	12	24	US-10-083-889-8	Sequence 8, Appl
43	54	79.4	12	25	US-10-116-275-102	Sequence 102, App
44	54	79.4	12	25	US-10-116-288-1	Sequence 1, Appl
45	54	79.4	12	25	US-10-136-187-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-671-089-2
; Sequence 2, Application US/09671089
; GENERAL INFORMATION:
; APPLICANT: O'Malley, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; TITLE OF INVENTION: MEMBRANE TRANSLATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20018
; CURRENT APPLICATION NUMBER: US/09/671,089
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,246
; PRIOR FILING DATE: 1999-09-27
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: membrane translocating peptide
; NAME/KEY: MOD_RES
; LOCATION: (15)..(15)
; OTHER INFORMATION: linked to FITC-LC
; US-09-671-089-2

Query Match 100.0%; Score 68; DB 20; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match	100.0%	Score 68;	DB 25;	Length 15;
Best Local Similarity	100.0%	Pred. No. 0.0022;		
Matches 15;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

Query Match	100.0%;	Score 68;	DB 25;	Length 1
Best Local Similarity	100.0%;	Pred. No. 0.0022;		
Matches 15;	Conservative 0;	Mismatches 0;	Indels	

Query Match	100.0%	Score 68;	DB 25;	Length 15;
Best Local Similarity	100.0%;	Pred. No. 0.0022;		
Matches 15;	Conservative 0;	Mismatches 0;	Indels	
ov	1	KKAAAVLLPVLIAAP	15	

```
Db 1 KKAAYVLLPVLLAAP 15
|||||
RESULT 6
US-10-136-187-33
; Sequence 33, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
US-10-136-187-33

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAYVLLPVLLAAP 15
|||||
Db 1 KKAAYVLLPVLLAAP 15

RESULT 7
US-10-136-187-34
; Sequence 34, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
US-10-136-187-34

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 KKAAYVLLPVLLAAP 15
|||||
Qy 1 KKAAYVLLPVLLAAP 15
|||||
```

```
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAYVLLPVLLAAP 15
|||||
Db 1 KKAAYVLLPVLLAAP 15

RESULT 8
US-10-136-187-35
; Sequence 35, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
US-10-136-187-35

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAYVLLPVLLAAP 15
|||||
Db 1 KKAAYVLLPVLLAAP 15

RESULT 9
US-10-136-187-36
; Sequence 36, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
US-10-136-187-36

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAYVLLPVLLAAP 15
|||||
Db 1 KKAAYVLLPVLLAAP 15

RESULT 9
US-10-136-187-36
; Sequence 36, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
US-10-136-187-36

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAYVLLPVLLAAP 15
|||||
Db 1 KKAAYVLLPVLLAAP 15
```

; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
US-10-136-187-36

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAADVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAADVLLPVLLAAP 15

RESULT 10

US-10-136-187-37
; Sequence 37, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
US-10-136-187-37

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAADVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAADVLLPVLLAAP 15

RESULT 11

US-10-136-187-38
; Sequence 38, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
US-10-136-187-38

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAADVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAADVLLPVLLAAP 15

RESULT 12

US-10-136-187-39
; Sequence 39, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
US-10-136-187-39

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAADVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAADVLLPVLLAAP 15

RESULT 13

US-09-671-089-3
; Sequence 3, Application US/09671089
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20018
; CURRENT APPLICATION NUMBER: US/09/671,089
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,246
; PRIOR FILING DATE: 1999-09-27
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: membrane translocating peptide
US-09-671-089-3

Query Match 100.0%; Score 68; DB 20; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 2 KKAVALLPVLLAAP 16

Query Match 100.0%; Score 68; DB 25; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 2 KKAVALLPVLLAAP 16

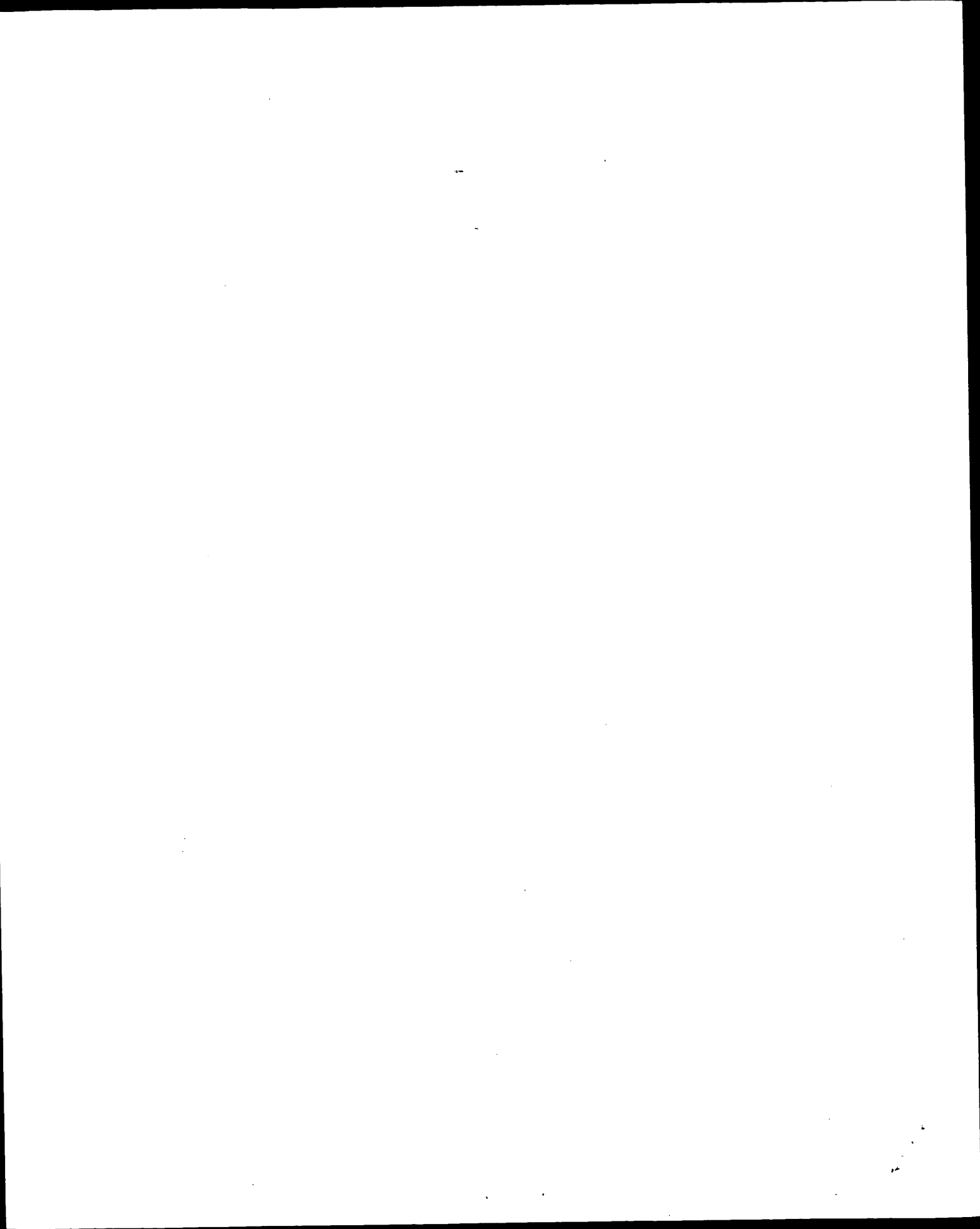
Search completed: March 5, 2003, 13:51:58
Job time: 140 secs

RESULT 14
US-09-671-089-48
Sequence 48, Application US/09671089
GENERAL INFORMATION:
APPLICANT: O'Mahony, Daniel J.
APPLICANT: Lambkin, Imelda J.
TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REFERENCE: E1067/20018
CURRENT APPLICATION NUMBER: US/09/671,089
CURRENT FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/156,246
PRIOR FILING DATE: 1999-09-27
NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn version 3.1
SEQ ID NO 48
LENGTH: 16
TYPE: PPT
ORGANISM: Artificial Sequence
FEATURE:
FEATURE:
OTHER INFORMATION: dansylated membrane translocating peptide
NAME/KEY: MOD_RES
LOCATION: (1)..(1)
OTHER INFORMATION: dansylated
US-09-671-089-48

Query Match 100.0%; Score 68; DB 20; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 2 KKAVALLPVLLAAP 16

RESULT 15
US-10-116-275-91
Sequence 91, Application US/10116275
GENERAL INFORMATION:
APPLICANT: Elan Pharmaceutical Technology
APPLICANT: O'Mahony, Daniel J.
APPLICANT: Brayden, David
APPLICANT: Byrne, Daraoh
APPLICANT: Lambkin, Imelda
APPLICANT: Higgins, Lisa
TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
FILE REFERENCE: E1067/20087
CURRENT APPLICATION NUMBER: US/10/116,275
CURRENT FILING DATE: 2002-10-04
NUMBER OF SEQ ID NOS: 349
SOFTWARE: PatentIn version 3.1
SEQ ID NO 91
LENGTH: 16
TYPE: PPT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Listed in Table titled "Peptides that Target to and/or Enhance Up
OTHER INFORMATION: take Across the GIT"
US-10-116-275-91



GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 : Search time 24 Seconds
(without alignments)
62.726 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68
Sequence: 1 KKAVALLPVLLAAP 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 516697 seqs, 100361977 residues

Total number of hits satisfying chosen parameters: 516697

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New.*
1: /cgn2_6/ptodata/1/paa/PCT_NEW_COMB.pep.*
2: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep.*
3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep.*
4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep.*
5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep.*
6: /cgn2_6/ptodata/1/paa/US10_NEW_COMB.pep.*
7: /cgn2_6/ptodata/1/paa/US60_NEW_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	68	100.0	15	1 PCT-US02-13609-2	Sequence 2, Appli
2	68	100.0	15	1 PCT-US02-13609-6	Sequence 6, Appli
3	68	100.0	15	1 PCT-US02-13609-12	Sequence 12, Appl
4	68	100.0	15	1 PCT-US02-13609-13	Sequence 13, Appl
5	68	100.0	15	1 PCT-US02-13609-33	Sequence 33, Appl
6	68	100.0	15	1 PCT-US02-13609-34	Sequence 34, Appl
7	68	100.0	15	1 PCT-US02-13609-35	Sequence 35, Appl
8	68	100.0	15	1 PCT-US02-13609-36	Sequence 36, Appl
9	68	100.0	15	1 PCT-US02-13609-37	Sequence 37, Appl
10	68	100.0	15	1 PCT-US02-13609-38	Sequence 38, Appl
11	68	100.0	15	1 PCT-US02-13609-39	Sequence 39, Appl
12	68	100.0	15	6 US-10-126-845-2	Sequence 2, Appli
13	68	100.0	15	6 US-10-126-845-3	Sequence 3, Appli
14	68	100.0	15	6 US-10-126-845-60	Sequence 60, Appl
15	68	100.0	15	6 US-10-126-845-61	Sequence 61, Appl
16	68	100.0	16	1 PCT-US02-13609-3	Sequence 3, Appli
17	68	100.0	16	1 PCT-US02-13609-7	Sequence 7, Appli
18	68	100.0	16	1 PCT-US02-13609-28	Sequence 28, Appl
19	68	100.0	16	1 PCT-US02-13609-32	Sequence 32, Appl
20	68	100.0	16	6 US-10-126-845-48	Sequence 48, Appl
21	68	100.0	17	1 PCT-US02-13609-30	Sequence 30, Appl
22	68	100.0	19	6 US-10-126-845-4	Sequence 4, Appli
23	68	100.0	19	6 US-10-126-845-62	Sequence 62, Appl
24	68	100.0	19	6 US-10-126-845-108	Sequence 108, Appl
25	68	100.0	20	1 PCT-US02-13609-5	Sequence 5, Appli
26	68	100.0	20	1 PCT-US02-13609-9	Sequence 9, Appli

27	68	100.0	20	6 US-10-126-845-106	Sequence 106, App
28	68	100.0	20	6 US-10-126-845-107	Sequence 107, App
29	68	100.0	21	6 US-10-126-845-109	Sequence 109, App
30	68	100.0	21	6 US-10-126-845-111	Sequence 111, App
31	64	94.1	16	6 US-10-126-845-5	Sequence 5, Appli
32	64	94.1	16	6 US-10-126-845-63	Sequence 63, Appl
33	63	92.6	15	1 PCT-US02-13609-4	Sequence 4, Appli
34	63	92.6	15	1 PCT-US02-13609-8	Sequence 8, Appli
35	63	92.6	15	1 PCT-US02-13609-29	Sequence 29, Appl
36	61	89.7	15	1 PCT-US02-13609-31	Sequence 31, Appl
37	61	89.7	15	1 PCT-US02-13609-40	Sequence 40, Appl
38	54	79.4	12	1 PCT-US01-49958A-1	Sequence 1, Appli
39	54	79.4	12	1 PCT-US02-13609-1	Sequence 1, Appli
40	54	79.4	12	1 PCT-US01-49958B-1	Sequence 1, Appli
41	54	79.4	12	6 US-10-126-845-1	Sequence 1, Appli
42	54	79.4	12	6 US-10-126-845-14	Sequence 14, Appl
43	54	79.4	12	6 US-10-126-845-72	Sequence 72, Appl
44	54	79.4	12	6 US-10-211-088-304	Sequence 304, App
45	54	79.4	12	6 US-10-232-410-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
PCT-US02-13609-2
; Sequence 2, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
PCT-US02-13609-2

Query Match 100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAVALLPVLLAAP 15
Db 1 KKAVALLPVLLAAP 15

RESULT 2
PCT-US02-13609-6
; Sequence 6, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340

```
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to galactose
PCT-US02-13609-6

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 1 KKAVALLPVLLAAP 15

RESULT 3
PCT-US02-13609-12
; Sequence 12, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Sally
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
PCT-US02-13609-12

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 1 KKAVALLPVLLAAP 15

RESULT 4
PCT-US02-13609-13
; Sequence 13, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
```

```
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Sally
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
PCT-US02-13609-13

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 1 KKAVALLPVLLAAP 15

RESULT 5
PCT-US02-13609-33
; Sequence 33, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Sally
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
PCT-US02-13609-33

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15
Db 1 KKAVALLPVLLAAP 15

RESULT 6
PCT-US02-13609-34
; Sequence 34, Application PC/TUS0213609
```



```

; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
PCT-US02-13609-34

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKA AAVLLPVLLAAP 15
DB 1 KKA AAVLLPVLLAAP 15

RESULT 7
PCT-US02-13609-35
; Sequence 35, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
PCT-US02-13609-35

Query Match      100.0%; Score 68; DB 1; Length 15;

```

```

Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKA AAVLLPVLLAAP 15
DB 1 KKA AAVLLPVLLAAP 15

RESULT 8
PCT-US02-13609-36
; Sequence 36, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
PCT-US02-13609-36

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKA AAVLLPVLLAAP 15
DB 1 KKA AAVLLPVLLAAP 15

RESULT 9
PCT-US02-13609-37
; Sequence 37, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct

```

```
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
PCT-US02-13609-37

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15
      |||||
RESULT 10
PCT-US02-13609-38
; Sequence 38, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES.
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
PCT-US02-13609-38

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15
      |||||
RESULT 11
PCT-US02-13609-39
; Sequence 39, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
PCT-US02-13609-39

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15
      |||||
RESULT 12
US-10-126-845-2
; Sequence 2, Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: membrane translocating peptide
US-10-126-845-2

Query Match      100.0%; Score 68; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15
      |||||
RESULT 13
US-10-126-845-3
; Sequence 3, Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: membrane translocating peptide
```

; FEATURE:
; NAME/KEY: MOD.RES
; LOCATION: (15)..(15)
; OTHER INFORMATION: Linked to FITC-LC
US-10-126-845-3

Query Match 100.0%; Score 68; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAAYVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAAYVLLPVLLAAP 15

RESULT 14
US-10-126-845-60
; Sequence 60. Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 60
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: D form peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: D form amino acid
US-10-126-845-60

Query Match 100.0%; Score 68; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAAYVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAAYVLLPVLLAAP 15

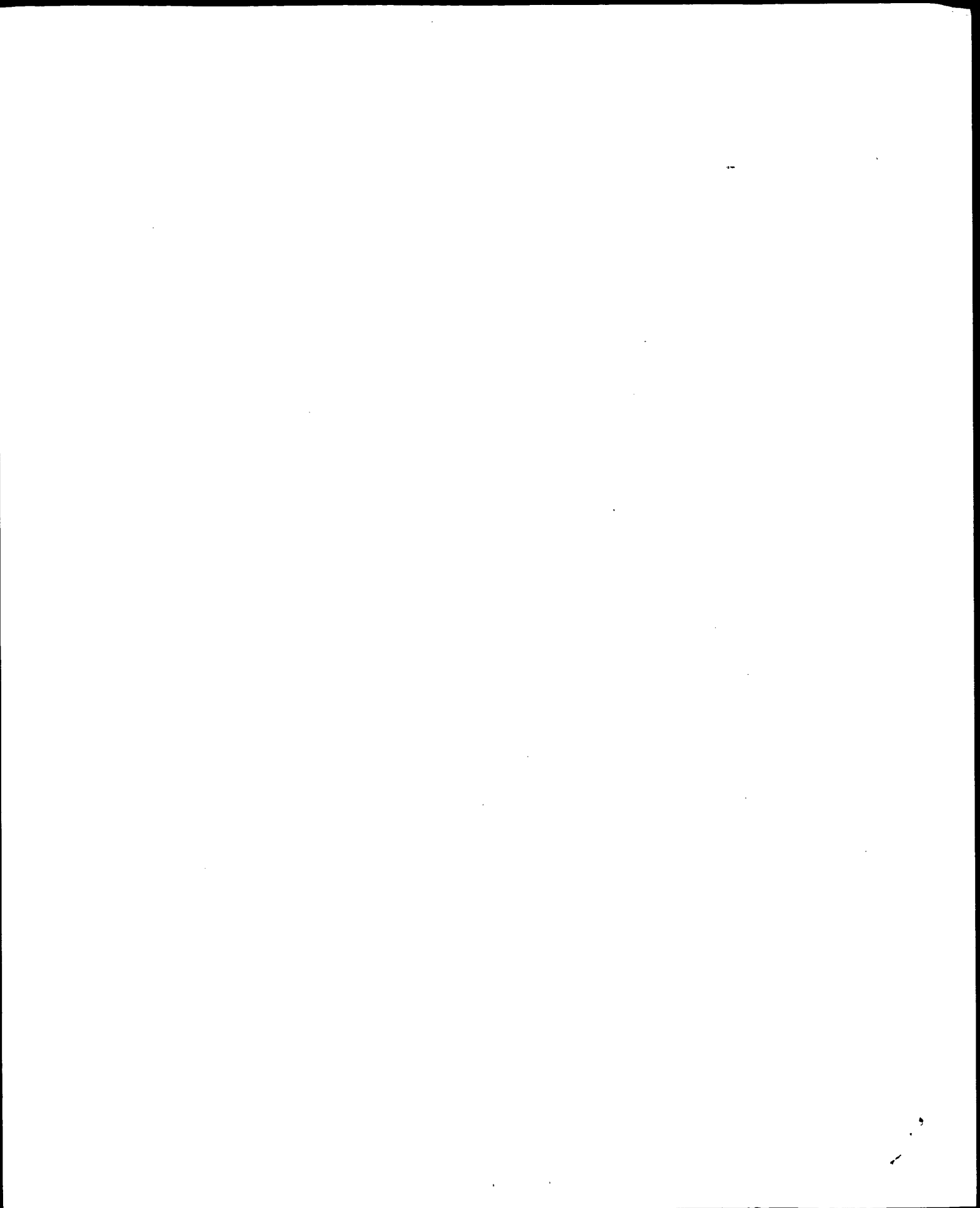
RESULT 15
US-10-126-845-61
; Sequence 61. Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 61
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: D form peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)

; OTHER INFORMATION: D form amino acid
US-10-126-845-61

Query Match 100.0%; Score 68; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAAYVLLPVLLAAP 15
| | | | | | | | | | | | | | |
Db 1 KKAAYVLLPVLLAAP 15

Search completed: March 5, 2003, 13:52:28
Job time : 24 secs



GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 ; Search time 13 Seconds
(without alignments)
48.658 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68

Sequence: 1 KRAAVLLPVLLAAP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 188354 seqs, 42170167 residues

Total number of hits satisfying chosen parameters: 188354

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	54	79.4	12	10	US-09-789-836-12
2	54	79.4	12	10	US-09-785-802A-10
3	54	79.4	12	12	US-10-116-288-1
4	54	79.4	386	9	US-09-948-193-1
5	50	73.5	11	12	US-10-116-288-9
6	47	69.1	11	12	US-10-116-288-5
7	46	67.6	10	12	US-10-116-288-8
8	43	63.2	10	12	US-10-116-288-4
9	42	61.8	9	12	US-10-116-288-7
10	40	58.8	582	10	US-09-916-658-4
11	40	58.8	582	10	US-09-801-196-27
12	40	58.8	582	10	US-09-919-497-84
13	40	58.8	1246	10	US-09-919-497-85
14	39	57.4	9	12	US-10-116-288-3
15	39	57.4	308	10	US-09-894-018-107
16	39	57.4	874	10	US-09-963-766-6
17	39	57.4	1386	10	US-09-866-582-38
18	38	55.9	8	12	US-10-116-288-6
19	38	55.9	2802	9	US-09-808-602-81

20	37	54.4	24	9	US-09-759-1308-327	Sequence 327, App
21	37	54.4	353	9	US-09-905-291A-2	Sequence 2, Appl
22	37	54.4	353	9	US-09-902-833-2	Sequence 2, Appl
23	37	54.4	353	9	US-09-907-824-2	Sequence 2, Appl
24	37	54.4	353	9	US-09-907-841-2	Sequence 2, Appl
25	37	54.4	353	9	US-09-904-011-2	Sequence 2, Appl
26	37	54.4	353	9	US-10-028-072-296	Sequence 296, App
27	37	54.4	353	9	US-09-759-1308-326	Sequence 326, App
28	37	54.4	353	9	US-09-906-742-2	Sequence 2, Appl
29	37	54.4	353	9	US-10-121-049-296	Sequence 296, App
30	37	54.4	353	9	US-10-123-904-296	Sequence 296, App
31	37	54.4	353	9	US-10-140-470-296	Sequence 296, App
32	37	54.4	353	9	US-09-906-838-2	Sequence 2, Appl
33	37	54.4	353	9	US-09-907-613-2	Sequence 2, Appl
34	37	54.4	353	9	US-09-907-942-2	Sequence 2, Appl
35	37	54.4	353	9	US-10-175-746-296	Sequence 296, App
36	37	54.4	353	9	US-10-176-918-296	Sequence 296, App
37	37	54.4	353	9	US-10-176-921-296	Sequence 296, App
38	37	54.4	353	9	US-10-137-865-296	Sequence 296, App
39	37	54.4	353	9	US-10-140-474-296	Sequence 296, App
40	37	54.4	353	9	US-09-904-820-2	Sequence 2, Appl
41	37	54.4	353	9	US-09-904-859-2	Sequence 2, Appl
42	37	54.4	353	9	US-09-909-204-2	Sequence 2, Appl
43	37	54.4	353	9	US-10-142-431-296	Sequence 296, App
44	37	54.4	353	9	US-10-143-114-296	Sequence 296, App
45	37	54.4	353	9	US-09-904-786-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-789-836-12
; Sequence 12, Application US/09789836
; Patent No. US20020082204A1
; GENERAL INFORMATION:
; APPLICANT: BRIGHAM, KENNETH L.
; APPLICANT: STECENKO, ARLENE A.
; APPLICANT: SEALY, LINDA
; TITLE OF INVENTION: TREATMENT OF INFLAMMATION WITH P20
; FILE REFERENCE: N-6977
; CURRENT APPLICATION NUMBER: US/09/789,836
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/183,584
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-789-836-12

Query Match 79.4%; Score 54; DB 10; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
|||||
DB 1 AAVLLPVLLAAP 12

RESULT 2

US-09-785-802A-10
; Sequence 10, Application US/09785802A
; Patent No. US20020151004A1
; GENERAL INFORMATION:
; APPLICANT: CRAIG, ROGER
; TITLE OF INVENTION: DELIVERY VEHICLES AND METHODS FOR USING THE SAME
; FILE REFERENCE: 11067/2035
; CURRENT APPLICATION NUMBER: US/09/785,802A

us-09-671-089-2.rapb

Fri Mar 7 09:41:17 2003

```
; CURRENT FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: US 09/748,06
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/748,789
; PRIOR FILING DATE: 2000-12-22
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-785-802A-10

Query Match          79.4%; Score 54; DB 10; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
Db 1 AAVLLPVLLAAP 12
|||||

RESULT 3
US-10-116-288-1
; Sequence 1, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.0097U3
; CURRENT APPLICATION NUMBER: US/10116,288
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(12)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-1

Query Match          79.4%; Score 54; DB 12; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
Db 1 AAVLLPVLLAAP 12
|||||

; CURRENT FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: US 09/748,06
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/748,789
; PRIOR FILING DATE: 2000-12-22
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-785-802A-10

Query Match          79.4%; Score 54; DB 10; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
Db 1 AAVLLPVLLAAP 12
|||||

RESULT 4
US-09-948-193-1
; Sequence 1, Application US/09948193
; Publication No. US2003002735A1
; GENERAL INFORMATION:
; APPLICANT: Ruley, H. Earl
; APPLICANT: Jo, Daewoong
; TITLE OF INVENTION: Genome Engineering by Cell-Permeable DNA
; TITLE OF INVENTION: Site-Specific Recombinases
; FILE REFERENCE: 22000.0109U2
; CURRENT APPLICATION NUMBER: US/09/948,193
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 2001-09-07
; PRIOR FILING DATE: 2000-09-07
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description: His6-NLS-Cre-MTS
US-09-948-193-1

Query Match          79.4%; Score 54; DB 9; Length 386;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
Db 374 AAVLLPVLLAAP 385
|||||

RESULT 5
US-10-116-288-9
; Sequence 9, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.0097U3
; CURRENT APPLICATION NUMBER: US/10/116,288
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-9
```

; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 US-10-116-288-9

Query Match 73.5%; Score 50; DB 12; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.018;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 AAVLLPVLLAAP 15
 |||||
 Db 1 AAVLLPVLLAAP 11

RESULT 6

; Sequence 5, Application US/10116288
 ; Patent No. US20020143142A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; FILE REFERENCE: 22000.009703
 ; CURRENT APPLICATION NUMBER: US/10/116,288
 ; PRIOR FILING DATE: 2002-04-04
 ; PRIOR APPLICATION NUMBER: 09/562,868
 ; PRIOR FILING DATE: 2000-05-01
 ; PRIOR APPLICATION NUMBER: 09/186,170
 ; PRIOR FILING DATE: 1998-11-04
 ; PRIOR APPLICATION NUMBER: 60/080,083
 ; PRIOR FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 11
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; OTHER INFORMATION: sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(11)
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Rojas, M. et al.
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 US-10-116-288-5

Query Match

Best Local Similarity 69.18%; Score 47; DB 12; Length 11;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 AAVLLPVLLAA 14
 |||||
 Db 1 AAVLLPVLLAA 11

RESULT 7

; Sequence 8, Application US/10116288
 ; Patent No. US20020143142A1
 ; GENERAL INFORMATION:

; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; FILE REFERENCE: 22000.009703
 ; CURRENT APPLICATION NUMBER: US/10/116,288
 ; PRIOR FILING DATE: 2002-04-04
 ; CURRENT APPLICATION NUMBER: 09/562,868
 ; PRIOR FILING DATE: 2000-05-01
 ; PRIOR APPLICATION NUMBER: 09/186,170
 ; PRIOR FILING DATE: 1998-11-04
 ; PRIOR APPLICATION NUMBER: 60/080,083
 ; PRIOR FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; OTHER INFORMATION: sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(10)
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Rojas, M. et al.
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 US-10-116-288-8

Query Match

Best Local Similarity 67.68%; Score 46; DB 12; Length 10;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 VLLPVLLAAP 15
 |||||
 Db 1 VLLPVLLAAP 10

RESULT 8

; Sequence 4, Application US/10116288
 ; Patent No. US20020143142A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; FILE REFERENCE: 22000.009703
 ; CURRENT APPLICATION NUMBER: US/10/116,288
 ; PRIOR FILING DATE: 2002-04-04
 ; CURRENT APPLICATION NUMBER: 09/562,868
 ; PRIOR FILING DATE: 2000-05-01
 ; PRIOR APPLICATION NUMBER: 09/186,170
 ; PRIOR FILING DATE: 1998-11-04
 ; PRIOR APPLICATION NUMBER: 60/080,083
 ; PRIOR FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 4
 ; LENGTH: 10
 ; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(10)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: "Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-10-116-288-4

Query Match      63.2%; Score 43; DB 12; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

QY 4 AAVLLPVLLA 13
   | | | | | | | |
Db 1 AAVLLPVLLA 10

RESULT 9
US-10-116-288-7
; Sequence 7, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116,288
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(9)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: "Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-10-116-288-7

Query Match      61.8%; Score 42; DB 12; Length 9;
Best Local Similarity 100.0%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

QY 4 AAVLLPVLLA 13
   | | | | | | | |
Db 1 AAVLLPVLLA 10

US-09-916-658-4
; Sequence 4, Application US/09916658
; Patent No. US20020025510A1
; GENERAL INFORMATION:
; APPLICANT: Strongin, Alex Y.
; APPLICANT: Deryugina, Elena I.
; TITLE OF INVENTION: Screening Methods Based On
; TITLE OF INVENTION: Superactivated Alpha v Beta 3 Integrin
; FILE REFERENCE: P-LJ 4811
; CURRENT APPLICATION NUMBER: US/09/916,658
; CURRENT FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: US 60/220,706
; PRIOR FILING DATE: 2000-07-26
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-916-658-4

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAVALLPVLL 12
   | | | | | | | |
Db 539 AAVALLPVLL 548

RESULT 11
US-09-801-196-27
; Sequence 27, Application US/09801196
; Patent No. US20020037827A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Kai
; APPLICANT: Smith, Ryan
; APPLICANT: Fajardo, Mark
; APPLICANT: Moss, Patrick
; TITLE OF INVENTION: A NOVEL MATRIX METALLOPROTEINASE (MMP-25)
; TITLE OF INVENTION: EXPRESSED IN SKIN CELLS
; FILE REFERENCE: 240083.509
; CURRENT APPLICATION NUMBER: US/09/801,196
; CURRENT FILING DATE: 2001-03-06
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-801-196-27

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAVALLPVLL 12
   | | | | | | | |
Db 539 AAVALLPVLL 548

RESULT 12
US-09-919-497-84
; Sequence 84, Application US/09919497
```



```
; Patent No. US2002010662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 09/919,497
; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 84
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-497-84

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAAYLLPVL 12
   | | | | | | | |
DB 539 AAAYLLPVL 548

RESULT 13
US-09-919-497-85
; Sequence 85, Application US/09919497
; Patent No. US2002010662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 09/919,497
; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 85
; LENGTH: 1246
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-497-85

Query Match      58.8%; Score 40; DB 10; Length 1246;
Best Local Similarity 72.7%; Pred. No. 1.3e+02;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 5 AVLLPVL 15
   | | | | | | |
DB 15 ALLPVL 25

RESULT 14
US-10-116-288-3
; Sequence 3, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116.288
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
```

```
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(9)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-3

Query Match      57.4%; Score 39; DB 12; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVL 12
   | | | | | | | |
DB 1 AAVLLPVL 9

RESULT 15
US-09-894-018-107
; Sequence 107, Application US/09894018
; Patent No. US20020119127A1
; GENERAL INFORMATION:
; APPLICANT: EPIMMUNE, Inc.
; APPLICANT: Sette, Alessandro
; APPLICANT: Chestnut, Robert
; APPLICANT: Livingston, Brian
; APPLICANT: Baker, Denisw
; APPLICANT: Newman, Mark
; APPLICANT: Brown, David
; TITLE OF INVENTION: METHODS AND SYSTEM FOR OPTIMIZING
; TITLE OF INVENTION: MINIGENES AND PEPTIDES THEREBY
; FILE REFERENCE: 39963-20033.00
; CURRENT APPLICATION NUMBER: US/09/894,018
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: PCT/US00/35568
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/173,390
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: US 60/284,221
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 368
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 308
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV.4312(1P)
US-09-894-018-107

Query Match      57.4%; Score 39; DB 10; Length 308;
Best Local Similarity 71.4%; Pred. No. 40;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KKAAYLLPVL 14
```

Db 242 KKAVALVGGVLA 255
|||||: |||

Search completed: March 5, 2003, 13:52:48
Job time : 14 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:09 ; Search time 14 Seconds
(without alignments)
31.525 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68

Sequence: 1 KKAAYLLPVLAAAP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA.*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pap.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pap.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pap.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pap.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pap.*
6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	54	79.4	12	4	US-09-186-170-1
2	54	79.4	12	4	US-09-562-868-1
3	50	73.5	11	4	US-09-186-170-9
4	50	73.5	11	4	US-09-562-868-9
5	47	69.1	11	4	US-09-186-170-5
6	47	69.1	11	4	US-09-562-868-5
7	46	67.6	10	4	US-09-186-170-8
8	46	67.6	10	4	US-09-562-868-8
9	43	63.2	10	4	US-09-186-170-4
10	43	63.2	10	4	US-09-562-868-4
11	42	61.8	9	4	US-09-186-170-7
12	42	61.8	9	4	US-09-562-868-7
13	40	58.8	30	4	US-08-448-489-7
14	40	58.8	30	4	US-08-704-711A-1
15	40	58.8	579	3	US-09-521-220-1
16	40	58.8	582	3	US-08-704-711A-2
17	40	58.8	582	4	US-08-448-489-1
18	40	58.8	582	4	US-09-211-704A-9
19	40	58.8	582	4	US-09-521-220-2
20	40	58.8	582	4	US-09-391-104-28
21	39	57.4	9	4	US-09-186-170-3
22	39	57.4	9	4	US-09-562-868-3
23	39	57.4	551	4	US-09-134-001C-5001
24	38	55.9	8	4	US-09-186-170-6
25	38	55.9	8	4	US-09-562-868-6
26	38	55.9	323	3	US-09-041-889-28
27	38	55.9	377	3	US-09-041-889-29

28	37	54.4	388	2	US-08-382-505-2	Sequence 2, Appl
29	37	54.4	702	4	US-09-232-200-102	Sequence 102, App
30	37	54.4	702	4	US-09-232-197-102	Sequence 102, App
31	37	54.4	702	4	US-09-232-201-102	Sequence 102, App
32	36	52.9	26	2	US-08-928-958-2	Sequence 2, Appl
33	36	52.9	26	2	US-09-072-429-2	Sequence 2, Appl
34	36	52.9	62	2	US-08-530-569B-21	Sequence 21, Appl
35	36	52.9	122	4	US-08-858-207A-321	Sequence 321, App
36	35	51.5	8	4	US-09-186-170-2	Sequence 2, Appl
37	35	51.5	8	4	US-09-562-868-2	Sequence 2, Appl
38	35	51.5	136	2	US-08-675-508-5	Sequence 5, Appl
39	35	51.5	138	4	US-08-746-397-11	Sequence 11, Appl
40	35	51.5	1319	2	US-08-290-731C-2	Sequence 2, Appl
41	35	51.5	1333	3	US-09-356-952-2	Sequence 2, Appl
42	35	51.5	1336	2	US-08-290-731C-6	Sequence 6, Appl
43	34	50.0	21	2	US-08-472-172-10	Sequence 10, Appl
44	34	50.0	27	2	US-08-528-958-3	Sequence 3, Appl
45	34	50.0	27	2	US-09-072-429-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-09-186-170-1

; Sequence 1, Application US/09186170

; Patent No. 6248558

; GENERAL INFORMATION:

; APPLICANT: Lin, Yao-Zhong

; APPLICANT: Donahue, John P.

; APPLICANT: Rotas, Mauricio

; APPLICANT: Tan, Zhongjia

; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of

; Patent No. 6248558

; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"

; FILE REFERENCE: V09841

; CURRENT APPLICATION NUMBER: US/09/186,170

; EARLIER FILING DATE: 1998-11-04

; EARLIER APPLICATION NUMBER: 60/080,083

; EARLIER FILING DATE: 1998-03-31

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 12

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Amino acid

; OTHER INFORMATION: sequence of peptide which transports proteins

; OTHER INFORMATION: through the cell membrane into the cell.

; FEATURE:

; NAME/KEY: PEPTIDE

; LOCATION: (1)..(12)

; PUBLICATION INFORMATION:

; TITLE: "Genetic Engineering of Proteins with Cell Membrane

; TITLE: Permeability"

; JOURNAL: Nature Biotechnology

; VOLUME: 16

; ISSUE: April

; PAGES: 370-375

; DATE: 1998-04-01

; RELEVANT RESIDUES: 1 TO 12

US-09-186-170-1

Query Match 79.4%; Score 54; DB 4; Length 12;

Best Local Similarity 100.0%; Pred. No. 0.0044;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 AAVLLPVLAAAP 15

|||||

Db 1 AAVLLPVLAAAP 12

RESULT 2

US-09-562-868-1
; Sequence 1, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6432680
; FILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009702
; CURRENT APPLICATION NUMBER: US/09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(12)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-1

Query Match 79.4%; Score 54; DB 4; Length 12;

Best Local Similarity 100.0%; Pred. No. 0.0044; Mismatches 0; Indels 0; Gaps 0;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15
|||||
DB 1 AAVLLPVLLAAP 12

RESULT 3

US-09-186-170-9
; Sequence 9, Application US/09186170
; Patent No. 6248558
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6248558
; FILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: VU9841
; CURRENT APPLICATION NUMBER: US/09/186,170
; CURRENT FILING DATE: 1998-11-04
; EARLIER APPLICATION NUMBER: 60/080,083
; EARLIER FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT

Query Match 73.5%; Score 50; DB 4; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.018; Mismatches 0; Indels 0; Gaps 0;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; RELEVANT RESIDUES: 1 TO 12
US-09-186-170-9

Query Match 73.5%; Score 50; DB 4; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.018; Mismatches 0; Indels 0; Gaps 0;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AVLLPVLLAAP 15
|||||
DB 1 AVLLPVLLAAP 11

RESULT 4

US-09-562-868-9
; Sequence 9, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6432680
; FILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009702
; CURRENT APPLICATION NUMBER: US/09/562,868
; CURRENT FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-9

Query Match 73.5%; Score 50; DB 4; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.018; Mismatches 0; Indels 0; Gaps 0;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AVLLPVLLAAP 15
|||||
DB 1 AVLLPVLLAAP 11

QY 5 AAVLLPVLLAAP 15
 |||||
 DB 1 AAVLLPVLLAAP 11

RESULT 5

US-09-186-170-5

; Sequence 5, Application US/09186170
 ; Patent No. 6248558
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6248558
 ; FILE REFERENCE: VU9841
 ; CURRENT APPLICATION NUMBER: US/09/186.170
 ; CURRENT FILING DATE: 1998-11-04
 ; EARLIER APPLICATION NUMBER: 60/080.083
 ; EARLIER FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 11
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(11)
 ; PUBLICATION INFORMATION:
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; RELEVANT RESIDUES: 1 TO 12
 US-09-186-170-5

Query Match 69.1%; Score 47; DB 4; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.056; Mismatches 0; Indels 0; Gaps 0;
 Matches 11; Conservative 0;

QY 4 AAVLLPVLLAA 14
 |||||
 DB 1 AAVLLPVLLAA 11

RESULT 6

US-09-562-868-5

; Sequence 5, Application US/09562868
 ; Patent No. 6432680
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6432680
 ; FILE REFERENCE: 22000.009702
 ; CURRENT APPLICATION NUMBER: US/09/562.868
 ; CURRENT FILING DATE: 2000-05-01
 ; PRIOR APPLICATION NUMBER: 60/080.083
 ; PRIOR FILING DATE: 1998-03-31

; PRIOR APPLICATION NUMBER: 09/186.170
 ; PRIOR FILING DATE: 1998-11-04
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 11
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(11)
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Rojas, M. et al.
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5

US-09-562-868-5

; Sequence 5, Application US/09186170
 ; Patent No. 6248558
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6248558
 ; FILE REFERENCE: VU9841
 ; CURRENT APPLICATION NUMBER: US/09/186.170
 ; CURRENT FILING DATE: 1998-11-04
 ; EARLIER APPLICATION NUMBER: 60/080.083
 ; EARLIER FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 11
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(11)
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Rojas, M. et al.
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5

US-09-562-868-5

Query Match 69.1%; Score 47; DB 4; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.056; Mismatches 0; Indels 0; Gaps 0;
 Matches 11; Conservative 0;

QY 4 AAVLLPVLLAA 14
 |||||
 DB 1 AAVLLPVLLAA 11

RESULT 7

US-09-186-170-8

; Sequence 8, Application US/09186170
 ; Patent No. 6248558
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6248558
 ; FILE REFERENCE: VU9841
 ; CURRENT APPLICATION NUMBER: US/09/186.170
 ; CURRENT FILING DATE: 1998-11-04
 ; EARLIER APPLICATION NUMBER: 60/080.083
 ; EARLIER FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(10)
 ; PUBLICATION INFORMATION:
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; RELEVANT RESIDUES: 1 TO 12

US-09-186-170-8

Query Match 67.6%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VLLPVLAAAP 15
| | | | | | | | | |
Db 1 VLLPVLAAAP 10

RESULT 8

US-09-562-868-8
; Sequence 8, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6432680
; FILE REFERENCE: 22000.009702
; CURRENT FILING DATE: 2000-05-01
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 8
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(10)
; PUBLICATION INFORMATION:
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; RELEVANT RESIDUES: 1 TO 12
; US-09-186-170-4

Query Match 63.2%; Score 43; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLAA 13
| | | | | | | | | |
Db 1 AAVLLPVLAA 10

RESULT 10

US-09-562-868-4
; Sequence 4, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6432680
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009702
; CURRENT FILING DATE: 2000-05-01
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-03-31
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(10)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane

Query Match 67.6%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VLLPVLAAAP 15
| | | | | | | | | |
Db 1 VLLPVLAAAP 10

RESULT 9

US-09-186-170-4
; Sequence 4, Application US/09186170
; Patent No. 6248558
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Patent No. 6248558

; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; US-09-562-868-4

Query Match 63.2%; Score 43; DB 4; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.23;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLA 13
 | | | | | | | |
 DB 1 AAVLLPVLLA 10

RESULT 11

US-09-186-170-7
 ; Sequence 7, Application US/09186170
 ; Patent No. 6248558
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong
 ; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6248558
 ; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
 ; FILE REFERENCE: W9841
 ; CURRENT APPLICATION NUMBER: US/09/186,170
 ; CURRENT FILING DATE: 1998-11-04
 ; EARLIER APPLICATION NUMBER: 60/080,083
 ; EARLIER FILING DATE: 1998-03-31
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 7
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(9)
 ; PUBLICATION INFORMATION:
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; RELEVANT RESIDUES: 1 TO 12
 ; US-09-186-170-7

Query Match 61.8%; Score 42; DB 4; Length 9;
 Best Local Similarity 100.0%; Pred. No. 2e+05;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 LLPVLLAAP 15
 | | | | | | | |
 DB 1 LLPVLLAAP 9

RESULT 12

US-09-562-868-7
 ; Sequence 7, Application US/09562868
 ; Patent No. 6432680
 ; GENERAL INFORMATION:
 ; APPLICANT: Lin, Yao-Zhong

; APPLICANT: Donahue, John P.
 ; APPLICANT: Rojas, Mauricio
 ; APPLICANT: Tan, Zhongjia
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
 ; Proteins with Cell Membrane Translocating Activity"
 ; Patent No. 6432680
 ; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
 ; FILE REFERENCE: 22000.009702
 ; CURRENT APPLICATION NUMBER: US/09/562,868
 ; CURRENT FILING DATE: 2000-05-01
 ; PRIOR APPLICATION NUMBER: 60/080,083
 ; PRIOR FILING DATE: 1998-03-31
 ; PRIOR APPLICATION NUMBER: 09/186,170
 ; PRIOR FILING DATE: 1998-11-04
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 7
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
 ; sequence of peptide which transports proteins
 ; OTHER INFORMATION: through the cell membrane into the cell.
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)..(9)
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Rojas, M. et al.
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane
 ; TITLE: Permeability"
 ; JOURNAL: Nature Biotechnology
 ; VOLUME: 16
 ; ISSUE: April
 ; PAGES: 370-375
 ; DATE: 1998-04-01
 ; US-09-562-868-7

Query Match 61.8%; Score 42; DB 4; Length 9;
 Best Local Similarity 100.0%; Pred. No. 2e+05;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 LLPVLLAAP 15
 | | | | | | | |
 DB 1 LLPVLLAAP 9

RESULT 13

US-08-448-489-7
 ; Sequence 7, Application US/08448489
 ; Patent No. 6184022
 ; GENERAL INFORMATION:
 ; APPLICANT: SEIKI, Motoharu
 ; APPLICANT: SATO, Hiroshi
 ; APPLICANT: SHINAGAWA, Akira
 ; TITLE OF INVENTION: NOVEL METALLOPROTEINASE AND ENCODING DNA THEREFOR
 ; FILE REFERENCE: 55-290p
 ; CURRENT APPLICATION NUMBER: US/08/448,489
 ; CURRENT FILING DATE: 1995-06-07
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 7
 ; LENGTH: 30
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-08-448-489-7

Query Match 58.8%; Score 40; DB 4; Length 30;
 Best Local Similarity 90.0%; Pred. No. 2.2;
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAAVLLPVLL 12
 | | | | | | | |
 DB 7 AAAVLLPVLL 16

us-09-671-089-2.ra1

Fri Mar 7 09:41:16 2003

RESULT 14
US-08-704-711A-1
; Sequence 1, Application US/08704711A
; Patent No. 6114159
; GENERAL INFORMATION:
; APPLICANT: WILL, Horst
; APPLICANT: HINZMANN, Bernd
; TITLE OF INVENTION: DNA SEQUENCES FOR MATRIX
; TITLE OF INVENTION: METALLOPROTEASES, THEIR PRODUCTION AND USE
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/704,711A
; FILING DATE: 20-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/DE95/00357
; FILING DATE: 17-MAR-1995
; PRIOR APPLICATION DATA: DE 4438838.1
; APPLICATION NUMBER: DE 4438838.1
; FILING DATE: 21-OCT-1994
; PRIOR APPLICATION DATA: DE 4409663.1
; APPLICATION NUMBER: DE 4409663.1
; FILING DATE: 17-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: GRANADOS, Patricia D.
; REGISTRATION NUMBER: 33,683
; REFERENCE/DOCKET NUMBER: 26083/124
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-704-711A-1

Query Match 58.8%; Score 40; DB 3; Length 579;
Best Local Similarity 90.0%; Pred. No. 48;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAAYLLPVLL 12
Db 536 AAAYLLPVLL 545

RESULT 15
US-09-521-220-1
; Sequence 1, Application US/09521220
; Patent No. 639348
; GENERAL INFORMATION:
; APPLICANT: WILL, Horst
; TITLE OF INVENTION: DNA SEQUENCES FOR MATRIX
; TITLE OF INVENTION: METALLOPROTEASES, THEIR PRODUCTION AND USE
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/521,220
FILING DATE: 08-Mar-2000
CLASSIFICATION: <Unknown>
21-OCT-1994
17-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/704,711
FILING DATE: <Unknown>
APPLICATION NUMBER: DE 4438838.1
FILING DATE: 21-OCT-1994
APPLICATION NUMBER: DE 4409663.1
FILING DATE: 17-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: GRANADOS, Patricia D.
REGISTRATION NUMBER: 33,683
REFERENCE/DOCKET NUMBER: 26083/124
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-521-220-1
Query Match 58.8%; Score 40; DB 4; Length 579;
Best Local Similarity 90.0%; Pred. No. 48;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 3 AAAYLLPVLL 12
Db 536 AAAYLLPVLL 545
Search completed: March 5, 2003, 13:49:33
Job time : 15 secs